

Amendment response to 7/23/07, Office Action

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A structure of a canopy comprising:
 - a plurality of pillars erected on the ground;
 - an end portion connection block fixed to an end portion of the pillar;
 - a slide connection block capable of sliding along the pillar;
 - a plurality of roof edge frames, each supporting an edge of a roof and including a first rod pivoting with respect to the end portion connection block of the pillar and a second rod pivoting with respect to the slide connection block, so that a center portion of the first and second rods pivots in X form capable of being hinge coupled;
 - a plurality of roof center frames, each supporting a center portion of the roof and including a first rod pivoting with respect to the end portion connection block of the first rod of the roof edge frame and a second rod pivoting with respect to the end portion connection block of the second rod of the roof edge frame, so that a center portion of the first and second rods pivots in X form capable of being hinge coupled;
 - a rod connection block connecting the roof edge frame and the roof center frame;
 - an upper head connection block pivoting with respect to the first rod of each of the roof center frames to form an outer top end of the roof;
 - a lower head connection block pivoting with respect to the second rod of each of the roof center frames to form an inner top end of the roof;
 - a connection block including a corner reinforcement bar capable of being hinge coupled between the end portion connection block and the upper head connection block to reinforce a

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corner formed to face the center of the roof; and

a roof cloth covering the roof edge frame and the roof center frame,

wherein, to make the upper head connection block disposed higher than the height of a horizontal level of the roof edge frame when the canopy is open, ~~the rod of the roof center frame is longer than the rod of the roof edge frame~~ and the first rod of the roof center frame is longer than the second rod of the roof center frame and the second rod of the roof edge frame is longer than the first rod of the roof edge frame, so that the canopy has one of a pyramid type roof, a slate (gable) type roof, a cross type roof, or multiple peak roofs including a cross-pyramid type roof, and a modified cross-pyramid type roof.

2. (Canceled)

3. (Currently Amended) The structure of a canopy as claimed in claims 14 or 15 ~~claim 1~~, wherein a multiunit roof is installed by further installing the pillars, the roof edge frames, and the roof center frames to form a plurality of the upper head connection block and the lower head connection blocks.

4. (Original) The structure of a canopy as claimed in claim 1, wherein the slide connection block comprises:

a main body which is an injection mold block where a cylindrical rail is formed on the bottom surface;

a slide key lever which is a column type injection block capable of sliding by being inserted in the rail of the main body and having a leading end portion inserted in a through hole formed in the pillar when a user presses the slide key lever to slidingly advance;

an elastic spring inserted around a leading end portion of the slide key lever and installed between the main body and the slide key lever to apply a restoring force in a direction to retreat

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the slide key lever; and

a key lever fixing tool which is a latch caught by a hook groove formed in the slide key lever and inserted in a vertical hole formed in a fixing cap covering and fixing the slide key lever and lowered by its own weight so that, as the leading end portion is caught by the hook groove of the slide key lever, when the slide key lever is in an advanced state, the slide key lever is fixed.

5. (Currently Amended) The structure of a canopy as claimed in claim 14 or 15 ~~claim 1~~, wherein the slide connection block further comprises:

~~a main body which is an injection mold block where a cylindrical rail is formed on the bottom surface;~~

~~— a slide key lever which is a column type injection block capable of sliding by being inserted in the rail of the main body and having a leading end portion inserted in a through hole formed in the pillar when slidably advancing;~~

~~— an elastic spring inserted around a rear end portion of the slide key lever and installed between the fixing cap and the slide key lever to apply a restoring force in a direction to advance the slide key lever; and~~

a key lever handle which is a handle having one end screw-coupled or fixed to a screw hole formed in a side surface of the slide key lever and the other end protruding from a slide hole formed in a side surface of the main body, so that, when a user retreats the slide key lever in an advanced state, the pillar is freely moved.

6. (Original) The structure of a canopy as claimed in claim 1, wherein the slide connection block comprises:

a main body which is an injection molding block where a guide plate is formed at a side surface thereof;

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a rotary key lever which is a rotary plate type injection block capable of pivoting around a pivot shaft installed on the guide plate of the main body, rotated by an elastic spring when a user opens the canopy by raising the slide connection block, so that a tip end portion formed on one side thereof is inserted in a through hole formed in the pillar; and

the elastic spring inserted around a tailing portion at the other side of the rotary key lever and installed between the main body and the rotary key lever and applying a restoring force in a direction to rotate the rotary key lever.

7. (Currently Amended) The structure of a canopy as claimed in claims 14 or 15 ~~claim 1~~, wherein the slide connection block, the end portion connection block of the pillar, the rod connection block and the rod connection block of the first rod of the roof edge frame, the upper head connection block, and the lower head connection block are plastic injection structures or welding structures according to the use thereof, have rectangular, square, circular, or oval shapes according to the shape of a rod in use, have an arm coupled via a column or cylindrical hinge shaft where a spline penetrating pin holes formed in the first and second rods of each of the blocks and a pin hole formed in the connection block, capable of pivoting, and have a fixing cap or pin installed at one end of the hinge shaft.

8. (Original) The structure of a canopy as claimed in claims 14 or 15 ~~claim 1~~, wherein a ventilation opening is formed at a sharp center of the roof cloth, the upper head connection block which is a plastic injection mold or a welding structure penetrates the ventilation opening to protrude upward, an additional double storied sunshield roof where hinge type sunshield roof ribs are formed is installed at the upper head connection block separated a predetermined distance from the ventilation opening.

9. (Currently Amended) The structure of a canopy as claimed in claims 14 or 15 ~~claim~~

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4, wherein the sunshield roof ribs comprises:

radial sunshield roof ribs forming the sunshield roof; and

hinge type sunshield roof ribs having one end portion pivoting at a center portion of the radial sunshield roof ribs or deviated from the center portion, sliding along the radial sunshield roof ribs, or fixed to the radial sunshield roof ribs capable of being folded by a hinge, and the other end portion pivoting the corner reinforcement bar and/or the second rod of the roof center frame.

10. (Currently Amended) The structure of a canopy as claimed in claims 14 or 15 ~~claim~~ 4, wherein an upper roof column capable of sliding along the upper head connection block is installed on the lower head connection block by penetrating the upper head connection block, an elastic spring is installed under the upper roof column and in a lower roof column to enable height adjustment by erecting the upper roof column, and a rotary handle is installed on the lower head connection block capable of freely rotating to adjust the displacement of the elastic spring and having one end portion penetrating the elastic spring and fixed to an end portion of the elastic spring capable of freely rotating and the other end portion capable of advancing and retreating by mean of a nut and a screw with respect to the lower head connection block during rotation.

11. (Currently Amended) The structure of a canopy as claimed in claims 14 or 15 ~~claim~~ 4, wherein, in the pillar, a key lever fixing block is inserted in an outer pipe and the outer pipe slide along an inner pipe to adjust the height of the pillar, a key lever or a snap button elastically hooked by a through hole formed in the outer pipe is selectively installed on the inner pipe according to use, and a fixing block fixing the inner and outer pipes is installed on the outer pipe, wherein the fixing block comprises: a main body which is an injection molding block where a

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rail is formed; a slide key lever which is a column type injection block inserted in the rail of the main body and sliding thereon and having a leading end portion penetrating the outer and inner pipes when advancing; an elastic spring inserted around a rear end portion of the slide key lever and installed between the fixing cap and the slide key lever to act a restoration force in a direction to advance the slide key lever; and a key lever handle which is a handle having one end screw coupled or coupled to a screw groove formed in a side surface of the slide key lever and the other end protruding from a slide hole formed in a side surface of the main body, so that the inner pipe moves freely by retreating the slide key lever in an advanced state.

12. (Previously Presented) The structure of a canopy as claimed in claim 3, wherein the multiunit roof is a single-roof multiunit manufactured by removing the central pillar and connecting a plurality of small roofs.

13. (Previously Presented) The structure of a canopy as claimed in claim 3, wherein the multiunit roof is a double-roof multiunit manufactured by removing the central pillar and forming a single large roof.

14. (Previously Presented) A structure of a canopy comprising:
a plurality of pillars erected on the ground;
an end portion connection block fixed to an end portion of the pillar;
a slide connection block capable of sliding along the pillar;
a plurality of roof edge frames, each supporting an edge of a roof and including a first rod pivoting with respect to the end portion connection block of the pillar and a second rod pivoting with respect to the slide connection block, so that a center portion of the first and second rods pivots in X form capable of being hinge coupled;

a plurality of roof center frames, each supporting a center portion of the roof and

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including a first rod pivoting with respect to the end portion connection block of the first rod of the roof edge frame and a second rod pivoting with respect to the end portion connection block of the second rod of the roof edge frame, so that a center portion of the first and second rods pivots in X form capable of being hinge coupled;

a rod connection block connecting the roof edge frame and the roof center frame;

an upper head connection block pivoting with respect to the first rod of each of the roof center frames to form an outer top end of the roof;

a lower head connection block pivoting with respect to the second rod of each of the roof center frames to form an inner top end of the roof;

a connection block including a corner reinforcement bar capable of being hinge coupled between the end portion connection block and the upper head connection block to reinforce a corner formed to face the center of the roof; and

a roof cloth covering the roof edge frame and the roof center frame,

wherein the slide connection block comprises:

a main body which is an injection mold block where a cylindrical rail is formed on the bottom surface;

a slide key lever which is a column type injection block capable of sliding by being inserted in the rail of the main body and having a leading end portion inserted in a through hole formed in the pillar when a user presses the slide key lever to slidingly advance;

an elastic spring inserted around a leading end portion of the slide key lever and installed between the main body and the slide key lever to apply a restoring force in a direction to retreat the slide key lever; and

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a key lever fixing tool which is a latch caught by a hook groove formed in the slide key lever and inserted in a vertical hole formed in a fixing cap covering and fixing the slide key lever and lowered by its own weight so that, as the leading end portion is caught by the hook groove of the slide key lever, when the slide key lever is in an advanced state, the slide key lever is fixed.

15. (Previously Presented) A structure of a canopy comprising:

a plurality of pillars erected on the ground;

an end portion connection block fixed to an end portion of the pillar;

a slide connection block capable of sliding along the pillar;

a plurality of roof edge frames, each supporting an edge of a roof and including a first rod pivoting with respect to the end portion connection block of the pillar and a second rod pivoting with respect to the slide connection block, so that a center portion of the first and second rods pivots in X form capable of being hinge coupled;

a plurality of roof center frames, each supporting a center portion of the roof and including a first rod pivoting with respect to the end portion connection block of the first rod of the roof edge frame and a second rod pivoting with respect to the end portion connection block of the second rod of the roof edge frame, so that a center portion of the first and second rods pivots in X form capable of being hinge coupled;

a rod connection block connecting the roof edge frame and the roof center frame;

an upper head connection block pivoting with respect to the first rod of each of the roof center frames to form an outer top end of the roof;

a lower head connection block pivoting with respect to the second rod of each of the roof center frames to form an inner top end of the roof;

a connection block including a corner reinforcement bar capable of being hinge coupled

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between the end portion connection block and the upper head connection block to reinforce a corner formed to face the center of the roof; and

a roof cloth covering the roof edge frame and the roof center frame,

wherein the slide connection block comprises:

a main body which is an injection molding block where a guide plate is formed at a side surface thereof;

a rotary key lever which is a rotary plate type injection block capable of pivoting around a pivot shaft installed on the guide plate of the main body, rotated by an elastic spring when a user opens the canopy by raising the slide connection block, so that a tip end portion formed on one side thereof is inserted in a through hole formed in the pillar; and

the elastic spring inserted around a tailing portion at the other side of the rotary key lever and installed between the main body and the rotary key lever and applying a restoring force in a direction to rotate the rotary key lever.